# FCGR3B monoclonal antibody, clone MEM-154 (FITC)

Catalog # MAB4541 Size 100 Reactions

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against native FCGR3B. |
| **Immunogen** | Native purified FCGR3B from human granulocytes. |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Specificity** | This antibody reacts with the epitope on CD16 antigen that residing in proximity to FG loop (probably BC or C'E loop). This antibody reacts with CD16+ granulocytes. |
| **Form** | Liquid |
| **Conjugation** | FITC |
| **Isotype** | IgG1 |
| **Recommend Usage** | Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or $10^6$ cells in a suspension)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.2% BSA, 0.09% sodium azide) |
| **Storage Instruction** | Store in the dark at 4°C. Do not freeze.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Flow Cytometry

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## Gene Info — FCGR3B

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|---|---|
| **Entrez GeneID** | 2215 |
| **Gene Name** | FCGR3B |
| **Gene Alias** | CD16, CD16b, FCG3, FCGR3 |
| **Gene Description** | Fc fragment of IgG, low affinity IIIb, receptor (CD16b) |
| **Omim ID** | 610665 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | low affinity IIIb |
| **Other Designations** | Fc fragment of IgG, low affinity IIIb, receptor for (CD16)\|Fc-gamma receptor IIIb (CD 16)\|low affinity immunoglobulin gamma Fc region receptor III-B |

## Publication Reference


- IgE-mediated activation of NK cells through Fc gamma RIII.

  Arase N, Arase H, Hirano S, Yokosuka T, Sakurai D, Saito T.

  Journal of Immunology 2003 Mar; 170(6):3054.

- The binding epitopes of human CD16 (Fc gamma RIII) monoclonal antibodies. Implications for ligand binding.

  Tamm A, Schmidt RE.

  Journal of Immunology 1996 Aug; 157(4):1576.

  Application: Flow Cyt, Human, HEK 294 cells

- A triallelic Fc gamma receptor type IIIA polymorphism influences the binding of human IgG by NK cell Fc gamma RIIIa.

  de Haas M, Koene HR, Kleijer M, de Vries E, Simsek S, van Tol MJ, Roos D, von dem Borne AE.

  The Journal of Immunology 1996 Apr; 156(8):2948.


## Pathway

- Natural killer cell mediated cytotoxicity

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- Systemic lupus erythematosus

## Disease

- Acute Disease
- Addison Disease
- Aggressive Periodontitis
- Agranulocytosis
- Alveolar Bone Loss
- Anemia
- Anti-Glomerular Basement Membrane Disease
- Arthritis
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Candidiasis
- Cardiovascular Diseases
- Cerebrovascular Accident
- Chronic Disease
- Chronic Periodontitis
- Coronary Artery Disease
- Cryoglobulinemia
- Cryptococcosis
- Dental Plaque
- Diabetes Mellitus
- Disease Progression

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- Disease Susceptibility
- Edema
- Epilepsy
- Genetic Predisposition to Disease
- Glomerulonephritis
- Guillain-Barre Syndrome
- Hepatitis C
- Infection
- Inflammation
- Leukemia
- Lichen Planus
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma
- Malaria
- Meningococcal Infections
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Nephritis
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Pneumonia

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- Poliomyelitis
- Postpoliomyelitis Syndrome
- Purpura
- Recurrence
- Respiratory Tract Infections
- Rheumatic Fever
- Seizures
- Sepsis
- Sickle Cell Trait
- Thymoma
- Tobacco Use Disorder
- Urinary Tract Infections
- Vasculitis
- Wegener Granulomatosis

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